

ABSTRACT OF THE DISCLOSURE

(Figure 1)

5 A powder catalyst supply system for supplying a powder catalyst to a gas phase polymerization reactor together with a gas serving as a polymerization material includes a catalyst storage container (10), a gas supply source (14), and a jet pump type powder supply apparatus. The catalyst storage container can store and supply the powder catalyst. The gas supply source supplies the polymerization material gas. The 10 jet pump type powder supply apparatus (16) generates a negative pressure therein by accelerating a flow of the gas flowing from the gas supply source, draws the powder catalyst from the catalyst storage container by the negative pressure, and supplies the powder catalyst to the gas phase polymerization reactor 15 together with the gas.

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